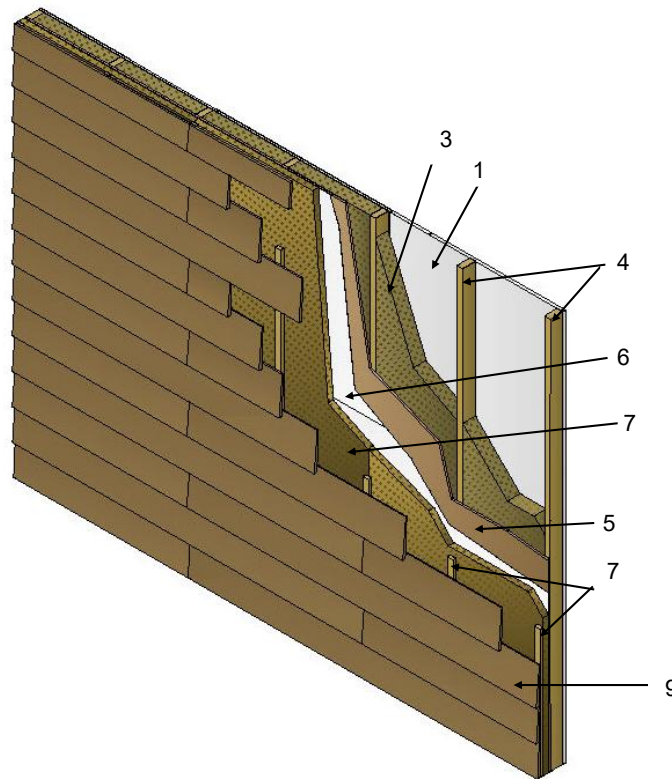




**QAI Design B1067-1b – ROCKWOOL – Exterior Wall Assembly**  
**CAN/ULC S101 / ASTM E119**  
**1-Hour Restricted-Load Bearing<sup>1</sup> Fire-Resistance Rated<sup>2</sup>**



| No. | COMPONENT                      | DESCRIPTION                       |                                                                                                                                                                                                                                                                                                                                            |
|-----|--------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Interior Gypsum                | Minimum Thickness:                | Single layer of 5/8-inch (16 mm) Type X gypsum board complying with ASTM C1396.                                                                                                                                                                                                                                                            |
|     |                                | Installation:                     | Installed vertically with joints located over stud locations. The gypsum is attached to the wood studs with minimum #6 1-5/8 in. (41 mm) length coarse thread drywall screws spaced at 8" (203 mm) around the perimeter and 12" (305 mm) in the field. The exposed face is to have joints taped and mudded per industry standard.          |
| 2   | Vapor Barrier (Optional)       | Any code compliant vapor barrier. |                                                                                                                                                                                                                                                                                                                                            |
| 3   | Cavity Insulation              | Certified Manufacturer:           | ROCKWOOL                                                                                                                                                                                                                                                                                                                                   |
|     |                                | Certified Product:                | Comfortbatt®                                                                                                                                                                                                                                                                                                                               |
|     |                                | Minimum Thickness:                | 3-1/2 in. (89 mm)                                                                                                                                                                                                                                                                                                                          |
|     |                                | Installation:                     | Mineral wool insulation is friction fit between studs with compression applied at insulation butt joints to remove through gaps.                                                                                                                                                                                                           |
| 4   | Studs                          | Type:                             | Dimensional lumber in compliance with the applicable model code.                                                                                                                                                                                                                                                                           |
|     |                                | Minimum Size:                     | Nominal 2 in. x 4 in. (38 mm x 89 mm)                                                                                                                                                                                                                                                                                                      |
|     |                                | Maximum Spacing:                  | 24 in. (610 mm)                                                                                                                                                                                                                                                                                                                            |
|     |                                | Installation:                     | Stud connection to the top plate (not shown) and bottom plate (not shown) to be in accordance with the applicable code.                                                                                                                                                                                                                    |
| 5   | Exterior Sheathing             | Type:                             | Plywood, Oriented Strand Board (OSB) or glass-mat-surfaced gypsum sheathing.                                                                                                                                                                                                                                                               |
|     |                                | Minimum Thickness:                | 7/16 in. (11 mm)                                                                                                                                                                                                                                                                                                                           |
| 6   | WRB                            | Any code compliant WRB.           |                                                                                                                                                                                                                                                                                                                                            |
| 7   | Continuous Exterior Insulation | Certified Manufacturer:           | ROCKWOOL                                                                                                                                                                                                                                                                                                                                   |
|     |                                | Certified Product Name:           | Comfortboard® 80 or Comfortboard® 110                                                                                                                                                                                                                                                                                                      |
|     |                                | Minimum Thickness:                | Any                                                                                                                                                                                                                                                                                                                                        |
|     |                                | Installation:                     | Fasten the board to hold it in place prior to fastening the wood furring strips over the board.                                                                                                                                                                                                                                            |
| 8   | Furring Strips                 | Minimum Size:                     | Nominal 1 in. x 2 in. (19 mm x 38 mm) width.                                                                                                                                                                                                                                                                                               |
|     |                                | Installation:                     | Screws spaced a maximum of 24 inches (610 mm) vertically. Screws are to be sufficient length to penetrate a minimum 1-inch (25 mm) into wood framing. Furring strip size and fasteners for attachment of furring strip to sheathing are to comply with the applicable code and be sufficient to meet local service condition requirements. |
| 9   | Exterior Cladding              | Type:                             | Any exterior cladding product complying and installed in accordance with the applicable code.                                                                                                                                                                                                                                              |

Note 1: Restricted-Load Bearing - Load rating for this assembly was calculated and tested using the limit states design method outlined in CAN/ULC S101 – Appendix C with a load reduction of 18%. Where assemblies are designed in accordance with allowable stress design (ASD) or load resistance factor design (LRFD) appropriate load adjustments are to be applied.

Note 2: This assembly is rated for exposure to fire from the interior only.